



BARGE "HFL 429"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-3/8	- 00-3/8	00-5/8	- 00-5/8	01-0/8	- 01-0/8	01-3/8	- 01-3/8	01-6/8	- 01-6/8	02-0/8	- 02-0/8
3 STBD	00-3/8	- 00-3/8	00-5/8	- 00-5/8	01-0/8	- 01-0/8	01-3/8	- 01-3/8	01-6/8	- 01-6/8	02-0/8	- 02-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 1'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 3'-00" (DOWN BY STERN)

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 3 PORT IS - 01-0/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11"

LENGTH BETWEEN DRAFT MARKS: 241'-03"

December 10, 2014

**PRECISION MEASUREMENT
& ANALYSIS, INC.**
 P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 429"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	
0	0	0	194,839	0	179,995	0	165,150	0	150,262	0	135,374	0	120,485	0	105,597	0	90,709			
1/4	1/4	1/4	194,530	1/4	179,686	1/4	164,840	1/4	149,952	1/4	135,064	1/4	120,175	1/4	105,287	1/4	90,399			
1/2	1/2	1/2	194,221	1/2	179,376	1/2	164,530	1/2	149,642	1/2	134,753	1/2	119,865	1/2	104,977	1/2	90,088			
3/4	3/4	3/4	193,911	3/4	179,067	3/4	164,220	3/4	149,332	3/4	134,443	3/4	119,555	3/4	104,667	3/4	89,778			
1	1	1	193,602	1	178,758	1	163,910	1	149,021	1	134,133	1	119,245	1	104,356	1	89,468			
1/4	1/4	1/4	193,293	1/4	178,449	1/4	163,599	1/4	148,711	1/4	133,823	1/4	118,935	1/4	104,046	1/4	89,158			
1/2	1/2	1/2	192,984	1/2	178,139	1/2	163,289	1/2	148,401	1/2	133,513	1/2	118,624	1/2	103,736	1/2	88,848			
3/4	3/4	3/4	192,674	3/4	177,830	3/4	162,979	3/4	148,091	3/4	133,202	3/4	118,314	3/4	103,426	3/4	88,538			
2	2	2	192,365	2	177,521	2	162,669	2	147,781	2	132,892	2	118,004	2	103,116	2	88,227			
1/4	1/4	1/4	192,056	1/4	177,211	1/4	162,359	1/4	147,470	1/4	132,582	1/4	117,694	1/4	102,805	1/4	87,917			
1/2	1/2	1/2	191,747	1/2	176,902	1/2	162,049	1/2	147,160	1/2	132,272	1/2	117,384	1/2	102,495	1/2	87,607			
3/4	3/4	3/4	191,437	3/4	176,593	3/4	161,738	3/4	146,850	3/4	131,962	3/4	117,073	3/4	102,185	3/4	87,297			
3	3	204,887	3	191,128	3	176,284	3	161,428	3	146,540	3	131,652	3	116,763	3	101,875	3	86,987		
1/4	1/4	204,711	1/4	190,819	1/4	175,974	1/4	161,118	1/4	146,230	1/4	131,341	1/4	116,453	1/4	101,565	1/4	86,676		
1/2	1/2	204,534	1/2	190,510	1/2	175,665	1/2	160,808	1/2	145,920	1/2	131,031	1/2	116,143	1/2	101,255	1/2	86,366		
3/4	3/4	204,358	3/4	190,200	3/4	175,356	3/4	160,498	3/4	145,609	3/4	130,721	3/4	115,833	3/4	100,944	3/4	86,056		
4	4	204,182	4	189,891	4	175,047	4	160,188	4	145,299	4	130,411	4	115,523	4	100,634	4	85,746		
1/4	1/4	203,961	1/4	189,582	1/4	174,737	1/4	159,877	1/4	144,989	1/4	130,101	1/4	115,212	1/4	100,324	1/4	85,436		
1/2	1/2	203,740	1/2	189,273	1/2	174,428	1/2	159,567	1/2	144,679	1/2	129,791	1/2	114,902	1/2	100,014	1/2	85,126		
3/4	3/4	203,520	3/4	188,963	3/4	174,119	3/4	159,257	3/4	144,369	3/4	129,480	3/4	114,592	3/4	99,704	3/4	84,815		
5	5	203,299	5	188,654	5	173,810	5	158,947	5	144,059	5	129,170	5	114,282	5	99,394	5	84,505		
1/4	1/4	203,034	1/4	188,345	1/4	173,500	1/4	158,637	1/4	143,748	1/4	128,860	1/4	113,972	1/4	99,083	1/4	84,195		
1/2	1/2	202,769	1/2	188,036	1/2	173,191	1/2	158,327	1/2	143,438	1/2	128,550	1/2	113,662	1/2	98,773	1/2	83,885		
3/4	3/4	202,504	3/4	187,726	3/4	172,882	3/4	158,016	3/4	143,128	3/4	128,240	3/4	113,351	3/4	98,463	3/4	83,575		
6	6	202,239	6	187,417	6	172,573	6	157,706	6	142,818	6	127,930	6	113,041	6	98,153	6	83,265		
1/4	1/4	201,936	1/4	187,108	1/4	172,263	1/4	157,396	1/4	142,508	1/4	127,619	1/4	112,731	1/4	97,843	1/4	82,954		
1/2	1/2	201,632	1/2	186,799	1/2	171,954	1/2	157,086	1/2	142,198	1/2	127,309	1/2	112,421	1/2	97,533	1/2	82,644		
3/4	3/4	201,328	3/4	186,489	3/4	171,645	3/4	156,776	3/4	141,887	3/4	126,992	3/4	112,111	3/4	97,222	3/4	82,334		
7	7	201,024	7	186,180	7	171,336	7	156,466	7	141,577	7	126,689	7	111,801	7	96,912	7	82,024		
1/4	1/4	200,715	1/4	185,871	1/4	171,026	1/4	156,155	1/4	141,267	1/4	126,379	1/4	111,490	1/4	96,602	1/4	81,714		
1/2	1/2	200,406	1/2	185,561	1/2	170,717	1/2	155,845	1/2	140,957	1/2	126,069	1/2	111,180	1/2	96,292	1/2	81,404		
3/4	3/4	200,097	3/4	185,252	3/4	170,408	3/4	155,535	3/4	140,647	3/4	125,758	3/4	110,870	3/4	95,982	3/4	81,093		
8	8	199,787	8	184,943	8	170,099	8	155,225	8	140,336	8	125,448	8	110,560	8	95,672	8	80,783		
1/4	1/4	199,478	1/4	184,634	1/4	169,789	1/4	154,915	1/4	140,026	1/4	125,138	1/4	110,250	1/4	95,361	1/4	80,473		
1/2	1/2	199,169	1/2	184,324	1/2	169,480	1/2	154,604	1/2	139,716	1/2	124,828	1/2	109,939	1/2	95,051	1/2	80,163		
3/4	3/4	198,860	3/4	184,015	3/4	169,171	3/4	154,294	3/4	139,406	3/4	124,518	3/4	109,629	3/4	94,741	3/4	79,853		
9	9	198,550	9	183,706	9	168,861	9	153,984	9	139,096	9	124,207	9	109,319	9	94,431	9	79,542		
1/4	1/4	198,241	1/4	183,397	1/4	168,552	1/4	153,674	1/4	138,786	1/4	123,897	1/4	109,009	1/4	94,121	1/4	79,232		
1/2	1/2	197,932	1/2	183,087	1/2	168,243	1/2	153,364	1/2	138,475	1/2	123,587	1/2	108,699	1/2	93,810	1/2	78,922		
3/4	3/4	197,623	3/4	182,778	3/4	167,934	3/4	153,054	3/4	138,165	3/4	123,277	3/4	108,389	3/4	93,500	3/4	78,612		
10	10	197,313	10	182,469	10	167,624	10	152,743	10	137,855	10	122,967	10	108,078	10	93,190	10	78,302		
1/4	1/4	197,004	1/4	182,160	1/4	167,315	1/4	152,433	1/4	137,545	1/4	122,657	1/4	107,768	1/4	92,880	1/4	77,992		
1/2	1/2	196,695	1/2	181,850	1/2	167,006	1/2	152,123	1/2	137,235	1/2	122,346	1/2	107,458	1/2	92,570	1/2	77,681		
3/4	3/4	196,386	3/4	181,541	3/4	166,697	3/4	151,813	3/4	136,925	3/4	122,036	3/4	107,148	3/4	92,260	3/4	77,371		
11	11	196,076	11	181,232	11	166,387	11	151,503	11	136,614	11	121,726	11	106,838	11	91,949	11	77,061		
1/4	1/4	195,767	1/4	180,923	1/4	166,078	1/4	151,193	1/4	136,304	1/4	121,416	1/4	106,528	1/4	91,639	1/4	76,751		
1/2	1/2	195,458	1/2	180,613	1/2	165,769	1/2	150,882	1/2	135,994	1/2	121,106	1/2	106,217	1/2	91,329	1/2	76,441		
3/4	3/4	195,149	3/4	180,304	3/4	165,460	3/4	150,572	3/4	135,684	3/4	120,796	3/4	105,907	3/4	91,019	3/4	76,131		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "HFL 429"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	75,820	0	60,932	0	46,044	0	31,388	0	17,994	0	6,041	0		0		0		0	
1/4	75,510	1/4	60,622	1/4	45,734	1/4	31,096	1/4	17,731	1/4	5,809	1/4		1/4		1/4		1/4	
1/2	75,200	1/2	60,312	1/2	45,423	1/2	30,804	1/2	17,468	1/2	5,576	1/2		1/2		1/2		1/2	
3/4	74,890	3/4	60,002	3/4	45,113	3/4	30,512	3/4	17,205	3/4	5,344	3/4		3/4		3/4		3/4	
1	74,580	1	59,691	1	44,803	1	30,220	1	16,942	1	5,112	1		1		1		1	
1/4	74,270	1/4	59,381	1/4	44,493	1/4	29,931	1/4	16,682	1/4	4,883	1/4		1/4		1/4		1/4	
1/2	73,959	1/2	59,071	1/2	44,183	1/2	29,642	1/2	16,421	1/2	4,653	1/2		1/2		1/2		1/2	
3/4	73,649	3/4	58,761	3/4	43,873	3/4	29,352	3/4	16,161	3/4	4,424	3/4		3/4		3/4		3/4	
2	73,339	2	58,451	2	43,562	2	29,063	2	15,900	2	4,195	2		2		2		2	
1/4	73,029	1/4	58,141	1/4	43,252	1/4	28,776	1/4	15,642	1/4	3,968	1/4		1/4		1/4		1/4	
1/2	72,719	1/2	57,830	1/2	42,942	1/2	28,489	1/2	15,384	1/2	3,742	1/2		1/2		1/2		1/2	
3/4	72,408	3/4	57,520	3/4	42,632	3/4	28,202	3/4	15,126	3/4	3,516	3/4		3/4		3/4		3/4	
3	72,098	3	57,210	3	42,322	3	27,916	3	14,868	3	3,290	3		3		3		3	
1/4	71,788	1/4	56,900	1/4	42,011	1/4	27,631	1/4	14,613	1/4	3,067	1/4		1/4		1/4		1/4	
1/2	71,478	1/2	56,590	1/2	41,701	1/2	27,347	1/2	14,358	1/2	2,845	1/2		1/2		1/2		1/2	
3/4	71,168	3/4	56,279	3/4	41,391	3/4	27,063	3/4	14,102	3/4	2,622	3/4		3/4		3/4		3/4	
4	70,858	4	55,969	4	41,081	4	26,778	4	13,847	4	2,399	4		4		4		4	
1/4	70,547	1/4	55,659	1/4	40,772	1/4	26,495	1/4	13,594	1/4	2,181	1/4		1/4		1/4		1/4	
1/2	70,237	1/2	55,349	1/2	40,463	1/2	26,212	1/2	13,341	1/2	1,963	1/2		1/2		1/2		1/2	
3/4	69,927	3/4	55,039	3/4	40,155	3/4	25,928	3/4	13,088	3/4	1,745	3/4		3/4		3/4		3/4	
5	69,617	5	54,729	5	39,846	5	25,645	5	12,835	5	1,526	5		5		5		5	
1/4	69,307	1/4	54,418	1/4	39,537	1/4	25,364	1/4	12,585	1/4	1,358	1/4		1/4		1/4		1/4	
1/2	68,997	1/2	54,108	1/2	39,228	1/2	25,083	1/2	12,335	1/2	1,191	1/2		1/2		1/2		1/2	
3/4	68,686	3/4	53,798	3/4	38,919	3/4	24,802	3/4	12,085	3/4	1,023	3/4		3/4		3/4		3/4	
6	68,376	6	53,488	6	38,611	6	24,521	6	11,834	6	854	6		6		6		6	
1/4	68,066	1/4	53,178	1/4	38,303	1/4	24,243	1/4	11,586	1/4		1/4		1/4		1/4		1/4	
1/2	67,756	1/2	52,868	1/2	37,996	1/2	23,965	1/2	11,339	1/2		1/2		1/2		1/2		1/2	
3/4	67,446	3/4	52,557	3/4	37,688	3/4	23,686	3/4	11,091	3/4		3/4		3/4		3/4		3/4	
7	67,136	7	52,247	7	37,381	7	23,408	7	10,843	7		7		7		7		7	
1/4	66,825	1/4	51,937	1/4	37,076	1/4	23,132	1/4	10,598	1/4		1/4		1/4		1/4		1/4	
1/2	66,515	1/2	51,627	1/2	36,771	1/2	22,856	1/2	10,353	1/2		1/2		1/2		1/2		1/2	
3/4	66,205	3/4	51,317	3/4	36,466	3/4	22,581	3/4	10,108	3/4		3/4		3/4		3/4		3/4	
8	65,895	8	51,007	8	36,161	8	22,305	8	9,862	8		8		8		8		8	
1/4	65,585	1/4	50,696	1/4	35,859	1/4	22,032	1/4	9,620	1/4		1/4		1/4		1/4		1/4	
1/2	65,274	1/2	50,386	1/2	35,556	1/2	21,758	1/2	9,377	1/2		1/2		1/2		1/2		1/2	
3/4	64,964	3/4	50,076	3/4	35,254	3/4	21,485	3/4	9,134	3/4		3/4		3/4		3/4		3/4	
9	64,654	9	49,766	9	34,952	9	21,212	9	8,892	9		9		9		9		9	
1/4	64,344	1/4	49,456	1/4	34,653	1/4	20,941	1/4	8,652	1/4		1/4		1/4		1/4		1/4	
1/2	64,034	1/2	49,145	1/2	34,353	1/2	20,671	1/2	8,411	1/2		1/2		1/2		1/2		1/2	
3/4	63,724	3/4	48,835	3/4	34,054	3/4	20,400	3/4	8,171	3/4		3/4		3/4		3/4		3/4	
10	63,413	10	48,525	10	33,754	10	20,129	10	7,931	10		10		10		10		10	
1/4	63,103	1/4	48,215	1/4	33,457	1/4	19,861	1/4	7,694	1/4		1/4		1/4		1/4		1/4	
1/2	62,793	1/2	47,905	1/2	33,160	1/2	19,593	1/2	7,456	1/2		1/2		1/2		1/2		1/2	
3/4	62,483	3/4	47,595	3/4	32,863	3/4	19,325	3/4	7,219	3/4		3/4		3/4		3/4		3/4	
11	62,173	11	47,284	11	32,566	11	19,057	11	6,981	11		11		11		11		11	
1/4	61,863	1/4	46,974	1/4	32,271	1/4	18,791	1/4	6,746	1/4		1/4		1/4		1/4		1/4	
1/2	61,552	1/2	46,664	1/2	31,977	1/2	18,526	1/2	6,511	1/2		1/2		1/2		1/2		1/2	
3/4	61,242	3/4	46,354	3/4	31,683	3/4	18,260	3/4	6,276	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2014 SW
CALCULATED: 12/11/2014 CL
PRINTED: 12/12/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 429"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	195,239	0	180,393	0	165,547	0	150,657	0	135,767	0	120,877	0	105,987	0	91,097	0	91,097
1/4	1/4	1/4	194,930	1/4	180,084	1/4	165,237	1/4	150,347	1/4	135,457	1/4	120,567	1/4	105,677	1/4	90,787	1/4	90,787
1/2	1/2	1/2	194,621	1/2	179,774	1/2	164,927	1/2	150,037	1/2	135,147	1/2	120,257	1/2	105,367	1/2	90,476	1/2	90,476
3/4	3/4	3/4	194,311	3/4	179,465	3/4	164,617	3/4	149,727	3/4	134,837	3/4	119,947	3/4	105,056	3/4	90,166	3/4	90,166
1	1	1	194,002	1	179,156	1	164,307	1	149,417	1	134,526	1	119,636	1	104,746	1	89,856	1	89,856
1/4	1/4	1/4	193,693	1/4	178,847	1/4	163,997	1/4	149,106	1/4	134,216	1/4	119,326	1/4	104,436	1/4	89,546	1/4	89,546
1/2	1/2	1/2	193,384	1/2	178,537	1/2	163,686	1/2	148,796	1/2	133,906	1/2	119,016	1/2	104,126	1/2	89,236	1/2	89,236
3/4	3/4	3/4	193,074	3/4	178,228	3/4	163,376	3/4	148,486	3/4	133,596	3/4	118,706	3/4	103,816	3/4	88,925	3/4	88,925
2	2	2	192,765	2	177,919	2	163,066	2	148,176	2	133,286	2	118,396	2	103,505	2	88,615	2	88,615
1/4	1/4	1/4	192,456	1/4	177,609	1/4	162,756	1/4	147,866	1/4	132,975	1/4	118,085	1/4	103,195	1/4	88,305	1/4	88,305
1/2	1/2	1/2	192,146	1/2	177,300	1/2	162,446	1/2	147,555	1/2	132,665	1/2	117,775	1/2	102,885	1/2	87,995	1/2	87,995
3/4	3/4	3/4	191,837	3/4	176,991	3/4	162,135	3/4	147,245	3/4	132,355	3/4	117,465	3/4	102,575	3/4	87,685	3/4	87,685
3	3	3	191,528	3	176,681	3	161,825	3	146,935	3	132,045	3	117,155	3	102,265	3	87,374	3	87,374
1/4	1/4	204,979	191,218	1/4	176,372	1/4	161,515	1/4	146,625	1/4	131,735	1/4	116,844	1/4	101,954	1/4	87,064	1/4	87,064
1/2	1/2	204,803	190,909	1/2	176,063	1/2	161,205	1/2	146,315	1/2	131,424	1/2	116,534	1/2	101,644	1/2	86,754	1/2	86,754
3/4	3/4	204,626	190,600	3/4	175,754	3/4	160,894	3/4	146,004	3/4	131,114	3/4	116,224	3/4	101,334	3/4	86,444	3/4	86,444
4	4	204,450	190,291	4	175,444	4	160,584	4	145,694	4	130,804	4	115,914	4	101,024	4	86,134	4	86,134
1/4	1/4	204,274	189,981	1/4	175,135	1/4	160,274	1/4	145,384	1/4	130,494	1/4	115,604	1/4	100,714	1/4	85,823	1/4	85,823
1/2	1/2	204,053	189,672	1/2	174,826	1/2	159,964	1/2	145,074	1/2	130,184	1/2	115,293	1/2	100,403	1/2	85,513	1/2	85,513
3/4	3/4	203,832	189,363	3/4	174,516	3/4	159,654	3/4	144,763	3/4	129,873	3/4	114,983	3/4	100,093	3/4	85,203	3/4	85,203
5	5	203,612	189,053	5	174,207	5	159,343	5	144,453	5	129,563	5	114,673	5	99,783	5	84,893	5	84,893
1/4	1/4	203,391	188,744	1/4	173,898	1/4	159,033	1/4	144,143	1/4	129,253	1/4	114,363	1/4	99,473	1/4	84,582	1/4	84,582
1/2	1/2	203,126	188,435	1/2	173,588	1/2	158,723	1/2	143,833	1/2	128,943	1/2	114,053	1/2	99,162	1/2	84,272	1/2	84,272
3/4	3/4	202,861	188,125	3/4	173,279	3/4	158,413	3/4	143,523	3/4	128,632	3/4	113,742	3/4	98,852	3/4	83,962	3/4	83,962
6	6	202,596	187,816	6	172,970	6	158,103	6	143,212	6	128,322	6	113,432	6	98,542	6	83,652	6	83,652
1/4	1/4	202,331	187,507	1/4	172,661	1/4	157,792	1/4	142,902	1/4	128,012	1/4	113,122	1/4	98,232	1/4	83,342	1/4	83,342
1/2	1/2	202,027	187,198	1/2	172,351	1/2	157,482	1/2	142,592	1/2	127,702	1/2	112,812	1/2	97,922	1/2	83,031	1/2	83,031
3/4	3/4	201,724	186,888	3/4	172,042	3/4	157,172	3/4	142,282	3/4	127,392	3/4	112,501	3/4	97,611	3/4	82,721	3/4	82,721
7	7	201,420	186,579	7	171,733	7	156,862	7	141,972	7	127,081	7	112,191	7	97,301	7	82,411	7	82,411
1/4	1/4	201,116	186,270	1/4	171,423	1/4	156,552	1/4	141,661	1/4	126,771	1/4	111,881	1/4	96,991	1/4	82,101	1/4	82,101
1/2	1/2	200,807	185,960	1/2	171,114	1/2	156,241	1/2	141,351	1/2	126,461	1/2	111,571	1/2	96,681	1/2	81,791	1/2	81,791
3/4	3/4	200,497	185,651	3/4	170,805	3/4	155,931	3/4	141,041	3/4	126,151	3/4	111,261	3/4	96,370	3/4	81,480	3/4	81,480
8	8	200,188	185,342	8	170,496	8	155,621	8	140,731	8	125,841	8	110,950	8	96,060	8	81,170	8	81,170
1/4	1/4	199,879	185,032	1/4	170,186	1/4	155,311	1/4	140,421	1/4	125,530	1/4	110,640	1/4	95,750	1/4	80,860	1/4	80,860
1/2	1/2	199,569	184,723	1/2	169,877	1/2	155,000	1/2	140,110	1/2	125,220	1/2	110,330	1/2	95,440	1/2	80,550	1/2	80,550
3/4	3/4	199,260	184,414	3/4	169,568	3/4	154,690	3/4	139,800	3/4	124,910	3/4	110,020	3/4	95,130	3/4	80,239	3/4	80,239
9	9	198,951	184,105	9	169,258	9	154,380	9	139,490	9	124,600	9	109,710	9	94,819	9	79,929	9	79,929
1/4	1/4	198,642	183,795	1/4	168,949	1/4	154,070	1/4	139,180	1/4	124,290	1/4	109,399	1/4	94,509	1/4	79,619	1/4	79,619
1/2	1/2	198,332	183,486	1/2	168,640	1/2	153,760	1/2	138,869	1/2	123,979	1/2	109,089	1/2	94,199	1/2	79,309	1/2	79,309
3/4	3/4	198,023	183,177	3/4	168,330	3/4	153,449	3/4	138,559	3/4	123,669	3/4	108,779	3/4	93,889	3/4	78,999	3/4	78,999
10	10	197,714	182,867	10	168,021	10	153,139	10	138,249	10	123,359	10	108,469	10	93,579	10	78,688	10	78,688
1/4	1/4	197,404	182,558	1/4	167,712	1/4	152,829	1/4	137,939	1/4	123,049	1/4	108,159	1/4	93,268	1/4	78,378	1/4	78,378
1/2	1/2	197,095	182,249	1/2	167,403	1/2	152,519	1/2	137,629	1/2	122,738	1/2	107,848	1/2	92,958	1/2	78,068	1/2	78,068
3/4	3/4	196,786	181,940	3/4	167,093	3/4	152,209	3/4	137,318	3/4	122,428	3/4	107,538	3/4	92,648	3/4	77,758	3/4	77,758
11	11	196,477	181,630	11	166,784	11	151,898	11	137,008	11	122,118	11	107,228	11	92,338	11	77,448	11	77,448
1/4	1/4	196,167	181,321	1/4	166,475	1/4	151,588	1/4	136,698	1/4	121,808	1/4	106,918	1/4	92,028	1/4	77,137	1/4	77,137
1/2	1/2	195,858	181,012	1/2	166,165	1/2	151,278	1/2	136,388	1/2	121,498	1/2	106,607	1/2	91,717	1/2	76,827	1/2	76,827
3/4	3/4	195,549	180,702	3/4	165,856	3/4	150,968	3/4	136,078	3/4	121,187	3/4	106,297	3/4	91,407	3/4	76,517	3/4	76,517

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HFL 429"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	76,207	0	61,317	0	46,426	0	31,710	0	18,262	0	6,277	0		0		0		0	
1/4	75,897	1/4	61,006	1/4	46,116	1/4	31,414	1/4	17,997	1/4	6,042	1/4		1/4		1/4		1/4	
1/2	75,586	1/2	60,696	1/2	45,806	1/2	31,121	1/2	17,734	1/2	5,809	1/2		1/2		1/2		1/2	
3/4	75,276	3/4	60,386	3/4	45,496	3/4	30,828	3/4	17,471	3/4	5,577	3/4		3/4		3/4		3/4	
1	74,966	1	60,076	1	45,186	1	30,534	1	17,208	1	5,345	1		1		1		1	
1/4	74,656	1/4	59,766	1/4	44,875	1/4	30,241	1/4	16,945	1/4	5,112	1/4		1/4		1/4		1/4	
1/2	74,345	1/2	59,455	1/2	44,565	1/2	29,950	1/2	16,684	1/2	4,883	1/2		1/2		1/2		1/2	
3/4	74,035	3/4	59,145	3/4	44,255	3/4	29,660	3/4	16,423	3/4	4,654	3/4		3/4		3/4		3/4	
2	73,725	2	58,835	2	43,945	2	29,369	2	16,163	2	4,424	2		2		2		2	
1/4	73,415	1/4	58,525	1/4	43,635	1/4	29,078	1/4	15,902	1/4	4,195	1/4		1/4		1/4		1/4	
1/2	73,105	1/2	58,214	1/2	43,324	1/2	28,790	1/2	15,644	1/2	3,969	1/2		1/2		1/2		1/2	
3/4	72,794	3/4	57,904	3/4	43,014	3/4	28,501	3/4	15,386	3/4	3,742	3/4		3/4		3/4		3/4	
3	72,484	3	57,594	3	42,704	3	28,213	3	15,128	3	3,516	3		3		3		3	
1/4	72,174	1/4	57,284	1/4	42,394	1/4	27,925	1/4	14,870	1/4	3,290	1/4		1/4		1/4		1/4	
1/2	71,864	1/2	56,974	1/2	42,083	1/2	27,639	1/2	14,615	1/2	3,067	1/2		1/2		1/2		1/2	
3/4	71,554	3/4	56,663	3/4	41,773	3/4	27,354	3/4	14,360	3/4	2,845	3/4		3/4		3/4		3/4	
4	71,243	4	56,353	4	41,463	4	27,068	4	14,104	4	2,622	4		4		4		4	
1/4	70,933	1/4	56,043	1/4	41,153	1/4	26,782	1/4	13,849	1/4	2,399	1/4		1/4		1/4		1/4	
1/2	70,623	1/2	55,733	1/2	40,843	1/2	26,499	1/2	13,596	1/2	2,181	1/2		1/2		1/2		1/2	
3/4	70,313	3/4	55,423	3/4	40,532	3/4	26,215	3/4	13,343	3/4	1,963	3/4		3/4		3/4		3/4	
5	70,003	5	55,112	5	40,222	5	25,932	5	13,090	5	1,744	5		5		5		5	
1/4	69,692	1/4	54,802	1/4	39,912	1/4	25,648	1/4	12,837	1/4	1,526	1/4		1/4		1/4		1/4	
1/2	69,382	1/2	54,492	1/2	39,602	1/2	25,367	1/2	12,587	1/2	1,358	1/2		1/2		1/2		1/2	
3/4	69,072	3/4	54,182	3/4	39,292	3/4	25,087	3/4	12,337	3/4	1,190	3/4		3/4		3/4		3/4	
6	68,762	6	53,872	6	38,981	6	24,806	6	12,086	6	1,022	6		6		6		6	
1/4	68,451	1/4	53,561	1/4	38,671	1/4	24,525	1/4	11,836	1/4	854	1/4		1/4		1/4		1/4	
1/2	68,141	1/2	53,251	1/2	38,362	1/2	24,246	1/2	11,588	1/2		1/2		1/2		1/2		1/2	
3/4	67,831	3/4	52,941	3/4	38,053	3/4	23,968	3/4	11,340	3/4		3/4		3/4		3/4		3/4	
7	67,521	7	52,631	7	37,744	7	23,690	7	11,092	7		7		7		7		7	
1/4	67,211	1/4	52,320	1/4	37,435	1/4	23,411	1/4	10,845	1/4		1/4		1/4		1/4		1/4	
1/2	66,900	1/2	52,010	1/2	37,129	1/2	23,135	1/2	10,599	1/2		1/2		1/2		1/2		1/2	
3/4	66,590	3/4	51,700	3/4	36,823	3/4	22,860	3/4	10,354	3/4		3/4		3/4		3/4		3/4	
8	66,280	8	51,390	8	36,516	8	22,584	8	10,109	8		8		8		8		8	
1/4	65,970	1/4	51,080	1/4	36,210	1/4	22,308	1/4	9,864	1/4		1/4		1/4		1/4		1/4	
1/2	65,660	1/2	50,769	1/2	35,906	1/2	22,035	1/2	9,621	1/2		1/2		1/2		1/2		1/2	
3/4	65,349	3/4	50,459	3/4	35,603	3/4	21,761	3/4	9,378	3/4		3/4		3/4		3/4		3/4	
9	65,039	9	50,149	9	35,299	9	21,488	9	9,136	9		9		9		9		9	
1/4	64,729	1/4	49,839	1/4	34,996	1/4	21,215	1/4	8,893	1/4		1/4		1/4		1/4		1/4	
1/2	64,419	1/2	49,529	1/2	34,695	1/2	20,944	1/2	8,653	1/2		1/2		1/2		1/2		1/2	
3/4	64,108	3/4	49,218	3/4	34,394	3/4	20,674	3/4	8,413	3/4		3/4		3/4		3/4		3/4	
10	63,798	10	48,908	10	34,093	10	20,403	10	8,172	10		10		10		10		10	
1/4	63,488	1/4	48,598	1/4	33,792	1/4	20,132	1/4	7,932	1/4		1/4		1/4		1/4		1/4	
1/2	63,178	1/2	48,288	1/2	33,493	1/2	19,864	1/2	7,695	1/2		1/2		1/2		1/2		1/2	
3/4	62,868	3/4	47,977	3/4	33,195	3/4	19,596	3/4	7,457	3/4		3/4		3/4		3/4		3/4	
11	62,557	11	47,667	11	32,896	11	19,328	11	7,219	11		11		11		11		11	
1/4	62,247	1/4	47,357	1/4	32,598	1/4	19,059	1/4	6,982	1/4		1/4		1/4		1/4		1/4	
1/2	61,937	1/2	47,047	1/2	32,302	1/2	18,794	1/2	6,747	1/2		1/2		1/2		1/2		1/2	
3/4	61,627	3/4	46,737	3/4	32,006	3/4	18,528	3/4	6,512	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2014 SW
CALCULATED: 12/11/2014 CL
PRINTED: 12/12/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "HFL 429"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	
0	0	0	200,215	0	185,445	0	170,676	0	155,864	0	141,051	0	126,237	0	111,424	0	96,611			
1/4	1/4	1/4	199,907	1/4	185,138	1/4	170,368	1/4	155,555	1/4	140,742	1/4	125,929	1/4	111,115	1/4	96,302			
1/2	1/2	1/2	199,599	1/2	184,830	1/2	170,060	1/2	155,247	1/2	140,433	1/2	125,620	1/2	110,807	1/2	95,994			
3/4	3/4	3/4	199,292	3/4	184,522	3/4	169,751	3/4	154,938	3/4	140,125	3/4	125,311	3/4	110,498	3/4	95,685			
1	1	1	198,984	1	184,215	1	169,443	1	154,629	1	139,816	1	125,003	1	110,190	1	95,376			
1/4	1/4	1/4	198,676	1/4	183,907	1/4	169,134	1/4	154,321	1/4	139,508	1/4	124,694	1/4	109,881	1/4	95,068			
1/2	1/2	1/2	198,369	1/2	183,599	1/2	168,825	1/2	154,012	1/2	139,199	1/2	124,386	1/2	109,572	1/2	94,759			
3/4	3/4	3/4	198,061	3/4	183,292	3/4	168,517	3/4	153,704	3/4	138,890	3/4	124,077	3/4	109,264	3/4	94,451			
2	2	2	197,753	2	182,984	2	168,208	2	153,395	2	138,582	2	123,768	2	108,955	2	94,142			
1/4	1/4	1/4	197,446	1/4	182,676	1/4	167,900	1/4	153,086	1/4	138,273	1/4	123,460	1/4	108,647	1/4	93,833			
1/2	1/2	1/2	197,138	1/2	182,369	1/2	167,591	1/2	152,778	1/2	137,964	1/2	123,151	1/2	108,338	1/2	93,525			
3/4	3/4	3/4	196,830	3/4	182,061	3/4	167,282	3/4	152,469	3/4	137,656	3/4	122,843	3/4	108,029	3/4	93,216			
3	3	3	196,522	3	181,753	3	166,974	3	152,160	3	137,347	3	122,534	3	107,721	3	92,908			
1/4	1/4	209,904	1/4	196,215	1/4	181,445	1/4	166,665	1/4	151,852	1/4	137,039	1/4	122,225	1/4	107,412	1/4	92,599		
1/2	1/2	209,729	1/2	195,907	1/2	181,138	1/2	166,356	1/2	151,543	1/2	136,730	1/2	121,917	1/2	107,104	1/2	92,290		
3/4	3/4	209,553	3/4	195,599	3/4	180,830	3/4	166,048	3/4	151,235	3/4	136,421	3/4	121,608	3/4	106,795	3/4	91,982		
4	4	209,378	4	195,292	4	180,522	4	165,739	4	150,926	4	136,113	4	121,300	4	106,486	4	91,673		
1/4	1/4	209,202	1/4	194,984	1/4	180,215	1/4	165,431	1/4	150,617	1/4	135,804	1/4	120,991	1/4	106,178	1/4	91,364		
1/2	1/2	208,983	1/2	194,676	1/2	179,907	1/2	165,122	1/2	150,309	1/2	135,496	1/2	120,682	1/2	105,869	1/2	91,056		
3/4	3/4	208,763	3/4	194,369	3/4	179,599	3/4	164,813	3/4	150,000	3/4	135,187	3/4	120,374	3/4	105,561	3/4	90,747		
5	5	208,544	5	194,061	5	179,292	5	164,505	5	149,692	5	134,878	5	120,065	5	105,252	5	90,439		
1/4	1/4	208,324	1/4	193,753	1/4	178,984	1/4	164,196	1/4	149,383	1/4	134,570	1/4	119,757	1/4	104,943	1/4	90,130		
1/2	1/2	208,061	1/2	193,446	1/2	178,676	1/2	163,888	1/2	149,074	1/2	134,261	1/2	119,448	1/2	104,635	1/2	89,821		
3/4	3/4	207,797	3/4	193,138	3/4	178,368	3/4	163,579	3/4	148,766	3/4	133,953	3/4	119,139	3/4	104,326	3/4	89,513		
6	6	207,533	6	192,830	6	178,061	6	163,270	6	148,457	6	133,644	6	118,831	6	104,017	6	89,204		
1/4	1/4	207,270	1/4	192,522	1/4	177,753	1/4	162,962	1/4	148,149	1/4	133,335	1/4	118,522	1/4	103,709	1/4	88,896		
1/2	1/2	206,968	1/2	192,215	1/2	177,445	1/2	162,653	1/2	147,840	1/2	133,027	1/2	118,213	1/2	103,400	1/2	88,587		
3/4	3/4	206,665	3/4	191,907	3/4	177,138	3/4	162,345	3/4	147,531	3/4	132,718	3/4	117,905	3/4	103,092	3/4	88,278		
7	7	206,363	7	191,599	7	176,830	7	162,036	7	147,223	7	132,409	7	117,596	7	102,783	7	87,970		
1/4	1/4	206,061	1/4	191,292	1/4	176,522	1/4	161,727	1/4	146,914	1/4	132,101	1/4	117,288	1/4	102,474	1/4	87,661		
1/2	1/2	205,753	1/2	190,984	1/2	176,215	1/2	161,419	1/2	146,606	1/2	131,792	1/2	116,979	1/2	102,166	1/2	87,353		
3/4	3/4	205,446	3/4	190,676	3/4	175,907	3/4	161,110	3/4	146,297	3/4	131,484	3/4	116,670	3/4	101,857	3/4	87,044		
8	8	205,138	8	190,369	8	175,599	8	160,802	8	145,988	8	131,175	8	116,362	8	101,549	8	86,735		
1/4	1/4	204,830	1/4	190,061	1/4	175,292	1/4	160,493	1/4	145,680	1/4	130,866	1/4	116,053	1/4	101,240	1/4	86,427		
1/2	1/2	204,523	1/2	189,753	1/2	174,984	1/2	160,184	1/2	145,371	1/2	130,558	1/2	115,745	1/2	100,931	1/2	86,118		
3/4	3/4	204,215	3/4	189,445	3/4	174,676	3/4	159,876	3/4	145,062	3/4	130,249	3/4	115,436	3/4	100,623	3/4	85,810		
9	9	203,907	9	189,138	9	174,368	9	159,567	9	144,754	9	129,941	9	115,127	9	100,314	9	85,501		
1/4	1/4	203,599	1/4	188,830	1/4	174,061	1/4	159,258	1/4	144,445	1/4	129,632	1/4	114,819	1/4	100,006	1/4	85,192		
1/2	1/2	203,292	1/2	188,522	1/2	173,753	1/2	158,950	1/2	144,137	1/2	129,323	1/2	114,510	1/2	99,697	1/2	84,884		
3/4	3/4	202,984	3/4	188,215	3/4	173,445	3/4	158,641	3/4	143,828	3/4	129,015	3/4	114,202	3/4	99,388	3/4	84,575		
10	10	202,676	10	187,907	10	173,138	10	158,333	10	143,519	10	128,706	10	113,893	10	99,080	10	84,266		
1/4	1/4	202,369	1/4	187,599	1/4	172,830	1/4	158,024	1/4	143,211	1/4	128,398	1/4	113,584	1/4	98,771	1/4	83,958		
1/2	1/2	202,061	1/2	187,292	1/2	172,522	1/2	157,715	1/2	142,902	1/2	128,089	1/2	113,276	1/2	98,462	1/2	83,649		
3/4	3/4	201,753	3/4	186,984	3/4	172,215	3/4	157,407	3/4	142,594	3/4	127,780	3/4	112,967	3/4	98,154	3/4	83,341		
11	11	201,446	11	186,676	11	171,907	11	157,098	11	142,285	11	127,472	11	112,659	11	97,845	11	83,032		
1/4	1/4	201,138	1/4	186,369	1/4	171,599	1/4	156,790	1/4	141,976	1/4	127,163	1/4	112,350	1/4	97,537	1/4	82,723		
1/2	1/2	200,830	1/2	186,061	1/2	171,292	1/2	156,481	1/2	141,668	1/2	126,855	1/2	112,041	1/2	97,228	1/2	82,415		
3/4	3/4	200,523	3/4	185,753	3/4	170,984	3/4	156,172	3/4	141,359	3/4	126,546	3/4	111,733	3/4	96,919	3/4	82,106		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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 Pearland, Texas 77588
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BARGE "HFL 429"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	81,798	0	66,984	0	52,171	0	37,358	0	23,126	0	8,325	0		0		0		0	
1/4	81,489	1/4	66,676	1/4	51,863	1/4	37,049	1/4	22,830	1/4	8,017	1/4		1/4		1/4		1/4	
1/2	81,180	1/2	66,367	1/2	51,554	1/2	36,752	1/2	22,521	1/2	7,708	1/2		1/2		1/2		1/2	
3/4	80,872	3/4	66,059	3/4	51,245	3/4	36,455	3/4	22,212	3/4	7,400	3/4		3/4		3/4		3/4	
1	80,563	1	65,750	1	50,937	1	36,158	1	21,904	1	7,092	1		1		1		1	
1/4	80,255	1/4	65,441	1/4	50,628	1/4	35,862	1/4	21,595	1/4	6,783	1/4		1/4		1/4		1/4	
1/2	79,946	1/2	65,133	1/2	50,319	1/2	35,565	1/2	21,287	1/2	6,475	1/2		1/2		1/2		1/2	
3/4	79,637	3/4	64,824	3/4	50,011	3/4	35,268	3/4	20,978	3/4	6,167	3/4		3/4		3/4		3/4	
2	79,329	2	64,515	2	49,702	2	34,971	2	20,669	2	5,859	2		2		2		2	
1/4	79,020	1/4	64,207	1/4	49,394	1/4	34,674	1/4	20,361	1/4	5,551	1/4		1/4		1/4		1/4	
1/2	78,712	1/2	63,898	1/2	49,085	1/2	34,377	1/2	20,052	1/2	5,244	1/2		1/2		1/2		1/2	
3/4	78,403	3/4	63,590	3/4	48,776	3/4	34,081	3/4	19,744	3/4	4,936	3/4		3/4		3/4		3/4	
3	78,094	3	63,281	3	48,468	3	33,785	3	19,435	3	4,629	3		3		3		3	
1/4	77,786	1/4	62,972	1/4	48,159	1/4	33,488	1/4	19,126	1/4	4,322	1/4		1/4		1/4		1/4	
1/2	77,477	1/2	62,664	1/2	47,851	1/2	33,192	1/2	18,818	1/2	4,015	1/2		1/2		1/2		1/2	
3/4	77,168	3/4	62,355	3/4	47,542	3/4	32,896	3/4	18,509	3/4	3,709	3/4		3/4		3/4		3/4	
4	76,860	4	62,047	4	47,233	4	32,599	4	18,201	4	3,403	4		4		4		4	
1/4	76,551	1/4	61,738	1/4	46,925	1/4	32,303	1/4	17,892	1/4	3,096	1/4		1/4		1/4		1/4	
1/2	76,243	1/2	61,429	1/2	46,616	1/2	32,007	1/2	17,583	1/2	2,792	1/2		1/2		1/2		1/2	
3/4	75,934	3/4	61,121	3/4	46,308	3/4	31,711	3/4	17,275	3/4	2,487	3/4		3/4		3/4		3/4	
5	75,625	5	60,812	5	45,999	5	31,415	5	16,966	5	2,183	5		5		5		5	
1/4	75,317	1/4	60,504	1/4	45,690	1/4	31,119	1/4	16,658	1/4	1,879	1/4		1/4		1/4		1/4	
1/2	75,008	1/2	60,195	1/2	45,382	1/2	30,823	1/2	16,349	1/2	1,622	1/2		1/2		1/2		1/2	
3/4	74,700	3/4	59,886	3/4	45,073	3/4	30,527	3/4	16,040	3/4	1,365	3/4		3/4		3/4		3/4	
6	74,391	6	59,578	6	44,765	6	30,231	6	15,732	6	1,108	6		6		6		6	
1/4	74,082	1/4	59,269	1/4	44,456	1/4	29,935	1/4	15,423	1/4	850	1/4		1/4		1/4		1/4	
1/2	73,774	1/2	58,961	1/2	44,147	1/2	29,639	1/2	15,115	1/2		1/2		1/2		1/2		1/2	
3/4	73,465	3/4	58,652	3/4	43,839	3/4	29,342	3/4	14,806	3/4		3/4		3/4		3/4		3/4	
7	73,157	7	58,343	7	43,530	7	29,046	7	14,497	7		7		7		7		7	
1/4	72,848	1/4	58,035	1/4	43,221	1/4	28,750	1/4	14,189	1/4		1/4		1/4		1/4		1/4	
1/2	72,539	1/2	57,726	1/2	42,913	1/2	28,454	1/2	13,880	1/2		1/2		1/2		1/2		1/2	
3/4	72,231	3/4	57,417	3/4	42,604	3/4	28,158	3/4	13,572	3/4		3/4		3/4		3/4		3/4	
8	71,922	8	57,109	8	42,296	8	27,862	8	13,263	8		8		8		8		8	
1/4	71,614	1/4	56,800	1/4	41,987	1/4	27,566	1/4	12,954	1/4		1/4		1/4		1/4		1/4	
1/2	71,305	1/2	56,492	1/2	41,678	1/2	27,270	1/2	12,646	1/2		1/2		1/2		1/2		1/2	
3/4	70,996	3/4	56,183	3/4	41,370	3/4	26,974	3/4	12,337	3/4		3/4		3/4		3/4		3/4	
9	70,688	9	55,874	9	41,061	9	26,678	9	12,029	9		9		9		9		9	
1/4	70,379	1/4	55,566	1/4	40,753	1/4	26,382	1/4	11,720	1/4		1/4		1/4		1/4		1/4	
1/2	70,070	1/2	55,257	1/2	40,444	1/2	26,086	1/2	11,411	1/2		1/2		1/2		1/2		1/2	
3/4	69,762	3/4	54,949	3/4	40,135	3/4	25,790	3/4	11,103	3/4		3/4		3/4		3/4		3/4	
10	69,453	10	54,640	10	39,827	10	25,494	10	10,794	10		10		10		10		10	
1/4	69,145	1/4	54,331	1/4	39,518	1/4	25,198	1/4	10,486	1/4		1/4		1/4		1/4		1/4	
1/2	68,836	1/2	54,023	1/2	39,210	1/2	24,902	1/2	10,177	1/2		1/2		1/2		1/2		1/2	
3/4	68,527	3/4	53,714	3/4	38,901	3/4	24,606	3/4	9,868	3/4		3/4		3/4		3/4		3/4	
11	68,219	11	53,406	11	38,592	11	24,310	11	9,560	11		11		11		11		11	
1/4	67,910	1/4	53,097	1/4	38,284	1/4	24,014	1/4	9,251	1/4		1/4		1/4		1/4		1/4	
1/2	67,602	1/2	52,788	1/2	37,975	1/2	23,718	1/2	8,943	1/2		1/2		1/2		1/2		1/2	
3/4	67,293	3/4	52,480	3/4	37,667	3/4	23,422	3/4	8,634	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2014 SW
CALCULATED: 12/11/2014 CL
PRINTED: 12/12/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 429"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	200,470	0	185,700	0	170,931	0	156,118	0	141,304	0	126,491	0	111,677	0	96,864
1/4	1/4	1/4	1/4	1/4	200,162	1/4	185,393	1/4	170,622	1/4	155,809	1/4	140,996	1/4	126,182	1/4	111,369	1/4	96,555
1/2	1/2	1/2	1/2	1/2	199,855	1/2	185,085	1/2	170,314	1/2	155,500	1/2	140,687	1/2	125,874	1/2	111,060	1/2	96,247
3/4	3/4	3/4	3/4	3/4	199,547	3/4	184,777	3/4	170,005	3/4	155,192	3/4	140,378	3/4	125,565	3/4	110,752	3/4	95,938
1		1		1	199,239	1	184,470	1	169,697	1	154,883	1	140,070	1	125,256	1	110,443	1	95,630
1/4	1/4	1/4	1/4	1/4	198,932	1/4	184,162	1/4	169,388	1/4	154,575	1/4	139,761	1/4	124,948	1/4	110,134	1/4	95,321
1/2	1/2	1/2	1/2	1/2	198,624	1/2	183,854	1/2	169,079	1/2	154,266	1/2	139,453	1/2	124,639	1/2	109,826	1/2	95,012
3/4	3/4	3/4	3/4	3/4	198,316	3/4	183,547	3/4	168,771	3/4	153,957	3/4	139,144	3/4	124,331	3/4	109,517	3/4	94,704
2		2		2	198,008	2	183,239	2	168,462	2	153,649	2	138,835	2	124,022	2	109,209	2	94,395
1/4	1/4	1/4	1/4	1/4	197,701	1/4	182,931	1/4	168,153	1/4	153,340	1/4	138,527	1/4	123,713	1/4	108,900	1/4	94,087
1/2	1/2	1/2	1/2	1/2	197,393	1/2	182,624	1/2	167,845	1/2	153,031	1/2	138,218	1/2	123,405	1/2	108,591	1/2	93,778
3/4	3/4	3/4	3/4	3/4	197,085	3/4	182,316	3/4	167,536	3/4	152,723	3/4	137,909	3/4	123,096	3/4	108,283	3/4	93,469
3		3	210,467	3	196,778	3	182,008	3	167,228	3	152,414	3	137,601	3	122,787	3	107,974	3	93,161
1/4	1/4	1/4	210,292	1/4	196,470	1/4	181,700	1/4	166,919	1/4	152,106	1/4	137,292	1/4	122,479	1/4	107,665	1/4	92,852
1/2	1/2	1/2	210,116	1/2	196,162	1/2	181,393	1/2	166,610	1/2	151,797	1/2	136,984	1/2	122,170	1/2	107,357	1/2	92,544
3/4	3/4	3/4	209,941	3/4	195,855	3/4	181,085	3/4	166,302	3/4	151,488	3/4	136,675	3/4	121,862	3/4	107,048	3/4	92,235
4		4	209,765	4	195,547	4	180,777	4	165,993	4	151,180	4	136,366	4	121,553	4	106,740	4	91,926
1/4	1/4	1/4	209,546	1/4	195,239	1/4	180,470	1/4	165,685	1/4	150,871	1/4	136,058	1/4	121,244	1/4	106,431	1/4	91,618
1/2	1/2	1/2	209,326	1/2	194,931	1/2	180,162	1/2	165,376	1/2	150,563	1/2	135,749	1/2	120,936	1/2	106,122	1/2	91,309
3/4	3/4	3/4	209,107	3/4	194,624	3/4	179,854	3/4	165,067	3/4	150,254	3/4	135,441	3/4	120,627	3/4	105,814	3/4	91,000
5		5	208,887	5	194,316	5	179,547	5	164,759	5	149,945	5	135,132	5	120,319	5	105,505	5	90,692
1/4	1/4	1/4	208,624	1/4	194,008	1/4	179,239	1/4	164,450	1/4	149,637	1/4	134,823	1/4	120,010	1/4	105,197	1/4	90,383
1/2	1/2	1/2	208,360	1/2	193,701	1/2	178,931	1/2	164,142	1/2	149,328	1/2	134,515	1/2	119,701	1/2	104,888	1/2	90,075
3/4	3/4	3/4	208,096	3/4	193,393	3/4	178,623	3/4	163,833	3/4	149,020	3/4	134,206	3/4	119,393	3/4	104,579	3/4	89,766
6		6	207,833	6	193,085	6	178,316	6	163,524	6	148,711	6	133,898	6	119,084	6	104,271	6	89,457
1/4	1/4	1/4	207,531	1/4	192,778	1/4	178,008	1/4	163,216	1/4	148,402	1/4	133,589	1/4	118,776	1/4	103,962	1/4	89,149
1/2	1/2	1/2	207,228	1/2	192,470	1/2	177,700	1/2	162,907	1/2	148,094	1/2	133,280	1/2	118,467	1/2	103,654	1/2	88,840
3/4	3/4	3/4	206,926	3/4	192,162	3/4	177,393	3/4	162,598	3/4	147,785	3/4	132,972	3/4	118,158	3/4	103,345	3/4	88,532
7		7	206,624	7	191,854	7	177,085	7	162,290	7	147,476	7	132,663	7	117,850	7	103,036	7	88,223
1/4	1/4	1/4	206,316	1/4	191,547	1/4	176,777	1/4	161,981	1/4	147,168	1/4	132,354	1/4	117,541	1/4	102,728	1/4	87,914
1/2	1/2	1/2	206,009	1/2	191,239	1/2	176,470	1/2	161,673	1/2	146,859	1/2	132,046	1/2	117,232	1/2	102,419	1/2	87,606
3/4	3/4	3/4	205,701	3/4	190,931	3/4	176,162	3/4	161,364	3/4	146,551	3/4	131,737	3/4	116,924	3/4	102,110	3/4	87,297
8		8	205,393	8	190,624	8	175,854	8	161,055	8	146,242	8	131,429	8	116,615	8	101,802	8	86,988
1/4	1/4	1/4	205,085	1/4	190,316	1/4	175,546	1/4	160,747	1/4	145,933	1/4	131,120	1/4	116,307	1/4	101,493	1/4	86,680
1/2	1/2	1/2	204,778	1/2	190,008	1/2	175,239	1/2	160,438	1/2	145,625	1/2	130,811	1/2	115,998	1/2	101,185	1/2	86,371
3/4	3/4	3/4	204,470	3/4	189,701	3/4	174,931	3/4	160,130	3/4	145,316	3/4	130,503	3/4	115,689	3/4	100,876	3/4	86,063
9		9	204,162	9	189,393	9	174,623	9	159,821	9	145,008	9	130,194	9	115,381	9	100,567	9	85,754
1/4	1/4	1/4	203,855	1/4	189,085	1/4	174,316	1/4	159,512	1/4	144,699	1/4	129,886	1/4	115,072	1/4	100,259	1/4	85,445
1/2	1/2	1/2	203,547	1/2	188,777	1/2	174,008	1/2	159,204	1/2	144,390	1/2	129,577	1/2	114,764	1/2	99,950	1/2	85,137
3/4	3/4	3/4	203,239	3/4	188,470	3/4	173,700	3/4	158,895	3/4	144,082	3/4	129,268	3/4	114,455	3/4	99,642	3/4	84,828
10		10	202,932	10	188,162	10	173,393	10	158,586	10	143,773	10	128,960	10	114,146	10	99,333	10	84,520
1/4	1/4	1/4	202,624	1/4	187,854	1/4	173,085	1/4	158,278	1/4	143,465	1/4	128,651	1/4	113,838	1/4	99,024	1/4	84,211
1/2	1/2	1/2	202,316	1/2	187,547	1/2	172,777	1/2	157,969	1/2	143,156	1/2	128,343	1/2	113,529	1/2	98,716	1/2	83,902
3/4	3/4	3/4	202,009	3/4	187,239	3/4	172,469	3/4	157,661	3/4	142,847	3/4	128,034	3/4	113,221	3/4	98,407	3/4	83,594
11		11	201,701	11	186,931	11	172,162	11	157,352	11	142,539	11	127,725	11	112,912	11	98,099	11	83,285
1/4	1/4	1/4	201,393	1/4	186,624	1/4	171,854	1/4	157,043	1/4	142,230	1/4	127,417	1/4	112,603	1/4	97,790	1/4	82,977
1/2	1/2	1/2	201,085	1/2	186,316	1/2	171,546	1/2	156,735	1/2	141,921	1/2	127,108	1/2	112,295	1/2	97,481	1/2	82,668
3/4	3/4	3/4	200,778	3/4	186,008	3/4	171,239	3/4	156,426	3/4	141,613	3/4	126,799	3/4	111,986	3/4	97,173	3/4	82,359

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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 Pearland, Texas 77588
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BARGE "HFL 429"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	82,051	0	67,237	0	52,424	0	37,611	0	22,831	0	8,018	0		0		0		0	
1/4	81,742	1/4	66,929	1/4	52,115	1/4	37,302	1/4	22,522	1/4	7,710	1/4		1/4		1/4		1/4	
1/2	81,433	1/2	66,620	1/2	51,807	1/2	36,993	1/2	22,214	1/2	7,401	1/2		1/2		1/2		1/2	
3/4	81,125	3/4	66,311	3/4	51,498	3/4	36,685	3/4	21,905	3/4	7,093	3/4		3/4		3/4		3/4	
1	80,816	1	66,003	1	51,189	1	36,376	1	21,596	1	6,784	1		1		1		1	
1/4	80,508	1/4	65,694	1/4	50,881	1/4	36,067	1/4	21,288	1/4	6,476	1/4		1/4		1/4		1/4	
1/2	80,199	1/2	65,386	1/2	50,572	1/2	35,759	1/2	20,979	1/2	6,168	1/2		1/2		1/2		1/2	
3/4	79,890	3/4	65,077	3/4	50,264	3/4	35,450	3/4	20,671	3/4	5,860	3/4		3/4		3/4		3/4	
2	79,582	2	64,768	2	49,955	2	35,142	2	20,362	2	5,552	2		2		2		2	
1/4	79,273	1/4	64,460	1/4	49,646	1/4	34,834	1/4	20,053	1/4	5,245	1/4		1/4		1/4		1/4	
1/2	78,965	1/2	64,151	1/2	49,338	1/2	34,526	1/2	19,745	1/2	4,937	1/2		1/2		1/2		1/2	
3/4	78,656	3/4	63,843	3/4	49,029	3/4	34,218	3/4	19,436	3/4	4,630	3/4		3/4		3/4		3/4	
3	78,347	3	63,534	3	48,721	3	33,910	3	19,128	3	4,323	3		3		3		3	
1/4	78,039	1/4	63,225	1/4	48,412	1/4	33,602	1/4	18,819	1/4	4,016	1/4		1/4		1/4		1/4	
1/2	77,730	1/2	62,917	1/2	48,103	1/2	33,294	1/2	18,510	1/2	3,710	1/2		1/2		1/2		1/2	
3/4	77,422	3/4	62,608	3/4	47,795	3/4	32,985	3/4	18,202	3/4	3,403	3/4		3/4		3/4		3/4	
4	77,113	4	62,300	4	47,486	4	32,677	4	17,893	4	3,097	4		4		4		4	
1/4	76,804	1/4	61,991	1/4	47,178	1/4	32,370	1/4	17,585	1/4	2,792	1/4		1/4		1/4		1/4	
1/2	76,496	1/2	61,682	1/2	46,869	1/2	32,062	1/2	17,276	1/2	2,488	1/2		1/2		1/2		1/2	
3/4	76,187	3/4	61,374	3/4	46,560	3/4	31,754	3/4	16,967	3/4	2,183	3/4		3/4		3/4		3/4	
5	75,878	5	61,065	5	46,252	5	31,447	5	16,659	5	1,878	5		5		5		5	
1/4	75,570	1/4	60,756	1/4	45,943	1/4	31,139	1/4	16,350	1/4	1,621	1/4		1/4		1/4		1/4	
1/2	75,261	1/2	60,448	1/2	45,634	1/2	30,831	1/2	16,042	1/2	1,364	1/2		1/2		1/2		1/2	
3/4	74,953	3/4	60,139	3/4	45,326	3/4	30,524	3/4	15,733	3/4	1,107	3/4		3/4		3/4		3/4	
6	74,644	6	59,831	6	45,017	6	30,216	6	15,424	6	850	6		6		6		6	
1/4	74,335	1/4	59,522	1/4	44,709	1/4	29,908	1/4	15,116	1/4		1/4		1/4		1/4		1/4	
1/2	74,027	1/2	59,213	1/2	44,400	1/2	29,600	1/2	14,807	1/2		1/2		1/2		1/2		1/2	
3/4	73,718	3/4	58,905	3/4	44,091	3/4	29,293	3/4	14,499	3/4		3/4		3/4		3/4		3/4	
7	73,410	7	58,596	7	43,783	7	28,985	7	14,190	7		7		7		7		7	
1/4	73,101	1/4	58,288	1/4	43,474	1/4	28,677	1/4	13,881	1/4		1/4		1/4		1/4		1/4	
1/2	72,792	1/2	57,979	1/2	43,166	1/2	28,370	1/2	13,573	1/2		1/2		1/2		1/2		1/2	
3/4	72,484	3/4	57,670	3/4	42,857	3/4	28,062	3/4	13,264	3/4		3/4		3/4		3/4		3/4	
8	72,175	8	57,362	8	42,548	8	27,754	8	12,956	8		8		8		8		8	
1/4	71,866	1/4	57,053	1/4	42,240	1/4	27,446	1/4	12,647	1/4		1/4		1/4		1/4		1/4	
1/2	71,558	1/2	56,745	1/2	41,931	1/2	27,139	1/2	12,338	1/2		1/2		1/2		1/2		1/2	
3/4	71,249	3/4	56,436	3/4	41,623	3/4	26,831	3/4	12,030	3/4		3/4		3/4		3/4		3/4	
9	70,941	9	56,127	9	41,314	9	26,523	9	11,721	9		9		9		9		9	
1/4	70,632	1/4	55,819	1/4	41,005	1/4	26,216	1/4	11,412	1/4		1/4		1/4		1/4		1/4	
1/2	70,323	1/2	55,510	1/2	40,697	1/2	25,908	1/2	11,104	1/2		1/2		1/2		1/2		1/2	
3/4	70,015	3/4	55,201	3/4	40,388	3/4	25,600	3/4	10,795	3/4		3/4		3/4		3/4		3/4	
10	69,706	10	54,893	10	40,079	10	25,292	10	10,487	10		10		10		10		10	
1/4	69,398	1/4	54,584	1/4	39,771	1/4	24,985	1/4	10,178	1/4		1/4		1/4		1/4		1/4	
1/2	69,089	1/2	54,276	1/2	39,462	1/2	24,677	1/2	9,869	1/2		1/2		1/2		1/2		1/2	
3/4	68,780	3/4	53,967	3/4	39,154	3/4	24,369	3/4	9,561	3/4		3/4		3/4		3/4		3/4	
11	68,472	11	53,658	11	38,845	11	24,062	11	9,252	11		11		11		11		11	
1/4	68,163	1/4	53,350	1/4	38,536	1/4	23,754	1/4	8,944	1/4		1/4		1/4		1/4		1/4	
1/2	67,855	1/2	53,041	1/2	38,228	1/2	23,446	1/2	8,635	1/2		1/2		1/2		1/2		1/2	
3/4	67,546	3/4	52,733	3/4	37,919	3/4	23,139	3/4	8,327	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2014 SW
CALCULATED: 12/11/2014 CL
PRINTED: 12/12/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 429"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	208,487	0	197,203	0	185,918	0	174,600	0	161,519	0	144,559	0	127,598	0	110,629		
1/4	1/4	1/4	208,254	1/4	196,968	1/4	185,683	1/4	174,365	1/4	161,166	1/4	144,205	1/4	127,245	1/4	110,275		
1/2	1/2	1/2	208,019	1/2	196,733	1/2	185,447	1/2	174,129	1/2	160,812	1/2	143,852	1/2	126,892	1/2	109,922		
3/4	3/4	3/4	207,783	3/4	196,498	3/4	185,211	3/4	173,893	3/4	160,459	3/4	143,499	3/4	126,538	3/4	109,568		
1	1	1	207,548	1	196,263	1	184,976	1	173,657	1	160,106	1	143,145	1	126,185	1	109,214		
1/4	1/4	1/4	207,313	1/4	196,028	1/4	184,740	1/4	173,421	1/4	159,752	1/4	142,792	1/4	125,831	1/4	108,860		
1/2	1/2	1/2	207,078	1/2	195,793	1/2	184,504	1/2	173,186	1/2	159,399	1/2	142,439	1/2	125,478	1/2	108,506		
3/4	3/4	3/4	206,843	3/4	195,558	3/4	184,268	3/4	172,950	3/4	159,046	3/4	142,085	3/4	125,125	3/4	108,153		
2	2	2	206,608	2	195,323	2	184,032	2	172,714	2	158,692	2	141,732	2	124,771	2	107,799		
1/4	1/4	1/4	206,373	1/4	195,087	1/4	183,797	1/4	172,478	1/4	158,339	1/4	141,379	1/4	124,418	1/4	107,445		
1/2	1/2	1/2	206,138	1/2	194,852	1/2	183,561	1/2	172,243	1/2	157,986	1/2	141,025	1/2	124,064	1/2	107,091		
3/4	3/4	3/4	205,903	3/4	194,617	3/4	183,325	3/4	172,007	3/4	157,632	3/4	140,672	3/4	123,711	3/4	106,738		
3	3	3	205,667	3	194,382	3	183,089	3	171,771	3	157,279	3	140,319	3	123,358	3	106,384		
1/4	1/4	215,397	205,432	1/4	194,147	1/4	182,853	1/4	171,535	1/4	156,926	1/4	139,965	1/4	123,004	1/4	106,030		
1/2	1/2	215,316	205,197	1/2	193,912	1/2	182,618	1/2	171,299	1/2	156,572	1/2	139,612	1/2	122,651	1/2	105,676		
3/4	3/4	215,235	204,962	3/4	193,677	3/4	182,382	3/4	171,064	3/4	156,219	3/4	139,259	3/4	122,297	3/4	105,322		
4	4	215,154	204,727	4	193,442	4	182,146	4	170,828	4	155,866	4	138,905	4	121,944	4	104,969		
1/4	1/4	215,073	204,492	1/4	193,207	1/4	181,910	1/4	170,592	1/4	155,512	1/4	138,552	1/4	121,590	1/4	104,615		
1/2	1/2	214,941	204,257	1/2	192,971	1/2	181,674	1/2	170,356	1/2	155,159	1/2	138,199	1/2	121,237	1/2	104,261		
3/4	3/4	214,810	204,022	3/4	192,736	3/4	181,439	3/4	170,120	3/4	154,806	3/4	137,845	3/4	120,884	3/4	103,907		
5	5	214,678	203,787	5	192,501	5	181,203	5	169,885	5	154,452	5	137,492	5	120,530	5	103,553		
1/4	1/4	214,546	203,551	1/4	192,266	1/4	180,967	1/4	169,649	1/4	154,099	1/4	137,139	1/4	120,177	1/4	103,200		
1/2	1/2	214,364	203,316	1/2	192,031	1/2	180,731	1/2	169,413	1/2	153,746	1/2	136,785	1/2	119,823	1/2	102,846		
3/4	3/4	214,182	203,081	3/4	191,796	3/4	180,495	3/4	169,177	3/4	153,392	3/4	136,432	3/4	119,470	3/4	102,492		
6	6	214,000	202,846	6	191,561	6	180,260	6	168,941	6	153,039	6	136,078	6	119,117	6	102,138		
1/4	1/4	213,817	202,611	1/4	191,326	1/4	180,024	1/4	168,706	1/4	152,686	1/4	135,725	1/4	118,763	1/4	101,785		
1/2	1/2	213,591	202,376	1/2	191,091	1/2	179,788	1/2	168,470	1/2	152,332	1/2	135,372	1/2	118,410	1/2	101,431		
3/4	3/4	213,364	202,141	3/4	190,855	3/4	179,552	3/4	168,234	3/4	151,979	3/4	135,018	3/4	118,056	3/4	101,077		
7	7	213,138	201,906	7	190,620	7	179,316	7	167,998	7	151,625	7	134,665	7	117,703	7	100,723		
1/4	1/4	212,911	201,671	1/4	190,385	1/4	179,081	1/4	167,762	1/4	151,272	1/4	134,312	1/4	117,350	1/4	100,369		
1/2	1/2	212,678	201,435	1/2	190,150	1/2	178,845	1/2	167,527	1/2	150,919	1/2	133,958	1/2	116,996	1/2	100,016		
3/4	3/4	212,445	201,200	3/4	189,915	3/4	178,609	3/4	167,291	3/4	150,565	3/4	133,605	3/4	116,643	3/4	99,662		
8	8	212,212	200,965	8	189,680	8	178,373	8	167,055	8	150,212	8	133,252	8	116,289	8	99,308		
1/4	1/4	211,980	200,730	1/4	189,445	1/4	178,137	1/4	166,819	1/4	149,859	1/4	132,898	1/4	115,936	1/4	98,954		
1/2	1/2	211,747	200,495	1/2	189,210	1/2	177,902	1/2	166,466	1/2	149,505	1/2	132,545	1/2	115,582	1/2	98,600		
3/4	3/4	211,514	200,260	3/4	188,974	3/4	177,666	3/4	166,112	3/4	149,152	3/4	132,192	3/4	115,228	3/4	98,247		
9	9	211,281	200,025	9	188,739	9	177,430	9	165,759	9	148,799	9	131,838	9	114,875	9	97,893		
1/4	1/4	211,048	199,790	1/4	188,504	1/4	177,194	1/4	165,406	1/4	148,445	1/4	131,485	1/4	114,521	1/4	97,539		
1/2	1/2	210,815	199,555	1/2	188,269	1/2	176,958	1/2	165,052	1/2	148,092	1/2	131,132	1/2	114,167	1/2	97,185		
3/4	3/4	210,582	199,319	3/4	188,034	3/4	176,723	3/4	164,699	3/4	147,739	3/4	130,778	3/4	113,813	3/4	96,832		
10	10	210,350	199,084	10	187,799	10	176,487	10	164,346	10	147,385	10	130,425	10	113,459	10	96,478		
1/4	1/4	210,117	198,849	1/4	187,564	1/4	176,251	1/4	163,992	1/4	147,032	1/4	130,072	1/4	113,106	1/4	96,124		
1/2	1/2	209,884	198,614	1/2	187,329	1/2	176,015	1/2	163,639	1/2	146,679	1/2	129,718	1/2	112,752	1/2	95,770		
3/4	3/4	209,651	198,379	3/4	187,094	3/4	175,779	3/4	163,286	3/4	146,325	3/4	129,365	3/4	112,398	3/4	95,416		
11	11	209,418	198,144	11	186,858	11	175,544	11	162,932	11	145,972	11	129,012	11	112,044	11	95,063		
1/4	1/4	209,185	197,909	1/4	186,623	1/4	175,308	1/4	162,579	1/4	145,619	1/4	128,658	1/4	111,691	1/4	94,709		
1/2	1/2	208,952	197,674	1/2	186,388	1/2	175,072	1/2	162,226	1/2	145,265	1/2	128,305	1/2	111,337	1/2	94,355		
3/4	3/4	208,719	197,439	3/4	186,153	3/4	174,836	3/4	161,872	3/4	144,912	3/4	127,952	3/4	110,983	3/4	94,001		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "HFL 429"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	93,647	0	76,738	0	59,969	0	43,031	0	26,524	0	9,551	0		0		0		0	
1/4	93,294	1/4	76,386	1/4	59,619	1/4	42,678	1/4	26,180	1/4	9,197	1/4		1/4		1/4		1/4	
1/2	92,940	1/2	76,034	1/2	59,270	1/2	42,333	1/2	25,826	1/2	8,843	1/2		1/2		1/2		1/2	
3/4	92,586	3/4	75,682	3/4	58,920	3/4	41,989	3/4	25,472	3/4	8,490	3/4		3/4		3/4		3/4	
1	92,232	1	75,331	1	58,571	1	41,645	1	25,118	1	8,137	1		1		1		1	
1/4	91,879	1/4	74,979	1/4	58,221	1/4	41,301	1/4	24,765	1/4	7,783	1/4		1/4		1/4		1/4	
1/2	91,525	1/2	74,631	1/2	57,868	1/2	40,956	1/2	24,411	1/2	7,430	1/2		1/2		1/2		1/2	
3/4	91,171	3/4	74,284	3/4	57,515	3/4	40,612	3/4	24,057	3/4	7,077	3/4		3/4		3/4		3/4	
2	90,817	2	73,936	2	57,162	2	40,268	2	23,703	2	6,724	2		2		2		2	
1/4	90,463	1/4	73,589	1/4	56,808	1/4	39,924	1/4	23,349	1/4	6,370	1/4		1/4		1/4		1/4	
1/2	90,110	1/2	73,241	1/2	56,455	1/2	39,580	1/2	22,996	1/2	6,017	1/2		1/2		1/2		1/2	
3/4	89,756	3/4	72,894	3/4	56,102	3/4	39,237	3/4	22,642	3/4	5,664	3/4		3/4		3/4		3/4	
3	89,402	3	72,546	3	55,749	3	38,893	3	22,288	3	5,312	3		3		3		3	
1/4	89,048	1/4	72,199	1/4	55,395	1/4	38,549	1/4	21,934	1/4	4,959	1/4		1/4		1/4		1/4	
1/2	88,696	1/2	71,849	1/2	55,042	1/2	38,206	1/2	21,580	1/2	4,607	1/2		1/2		1/2		1/2	
3/4	88,345	3/4	71,500	3/4	54,689	3/4	37,862	3/4	21,227	3/4	4,255	3/4		3/4		3/4		3/4	
4	87,993	4	71,150	4	54,335	4	37,518	4	20,873	4	3,903	4		4		4		4	
1/4	87,641	1/4	70,801	1/4	53,982	1/4	37,175	1/4	20,519	1/4	3,551	1/4		1/4		1/4		1/4	
1/2	87,290	1/2	70,452	1/2	53,629	1/2	36,831	1/2	20,165	1/2	3,202	1/2		1/2		1/2		1/2	
3/4	86,938	3/4	70,102	3/4	53,276	3/4	36,488	3/4	19,811	3/4	2,852	3/4		3/4		3/4		3/4	
5	86,586	5	69,753	5	52,922	5	36,145	5	19,458	5	2,502	5		5		5		5	
1/4	86,234	1/4	69,403	1/4	52,569	1/4	35,802	1/4	19,104	1/4	2,152	1/4		1/4		1/4		1/4	
1/2	85,883	1/2	69,054	1/2	52,216	1/2	35,458	1/2	18,750	1/2	1,857	1/2		1/2		1/2		1/2	
3/4	85,531	3/4	68,704	3/4	51,863	3/4	35,115	3/4	18,396	3/4	1,562	3/4		3/4		3/4		3/4	
6	85,179	6	68,355	6	51,509	6	34,772	6	18,042	6	1,267	6		6		6		6	
1/4	84,827	1/4	68,006	1/4	51,156	1/4	34,428	1/4	17,688	1/4	972	1/4		1/4		1/4		1/4	
1/2	84,476	1/2	67,656	1/2	50,803	1/2	34,085	1/2	17,335	1/2		1/2		1/2		1/2		1/2	
3/4	84,124	3/4	67,307	3/4	50,449	3/4	33,742	3/4	16,981	3/4		3/4		3/4		3/4		3/4	
7	83,772	7	66,957	7	50,096	7	33,398	7	16,627	7		7		7		7		7	
1/4	83,421	1/4	66,608	1/4	49,743	1/4	33,055	1/4	16,273	1/4		1/4		1/4		1/4		1/4	
1/2	83,069	1/2	66,258	1/2	49,390	1/2	32,712	1/2	15,919	1/2		1/2		1/2		1/2		1/2	
3/4	82,717	3/4	65,909	3/4	49,036	3/4	32,368	3/4	15,566	3/4		3/4		3/4		3/4		3/4	
8	82,365	8	65,560	8	48,683	8	32,025	8	15,212	8		8		8		8		8	
1/4	82,014	1/4	65,210	1/4	48,330	1/4	31,682	1/4	14,858	1/4		1/4		1/4		1/4		1/4	
1/2	81,662	1/2	64,861	1/2	47,977	1/2	31,338	1/2	14,504	1/2		1/2		1/2		1/2		1/2	
3/4	81,310	3/4	64,511	3/4	47,623	3/4	30,994	3/4	14,150	3/4		3/4		3/4		3/4		3/4	
9	80,958	9	64,162	9	47,270	9	30,650	9	13,797	9		9		9		9		9	
1/4	80,607	1/4	63,812	1/4	46,917	1/4	30,306	1/4	13,443	1/4		1/4		1/4		1/4		1/4	
1/2	80,255	1/2	63,463	1/2	46,564	1/2	29,962	1/2	13,089	1/2		1/2		1/2		1/2		1/2	
3/4	79,903	3/4	63,113	3/4	46,210	3/4	29,619	3/4	12,735	3/4		3/4		3/4		3/4		3/4	
10	79,551	10	62,764	10	45,857	10	29,275	10	12,381	10		10		10		10		10	
1/4	79,200	1/4	62,415	1/4	45,504	1/4	28,931	1/4	12,028	1/4		1/4		1/4		1/4		1/4	
1/2	78,848	1/2	62,065	1/2	45,150	1/2	28,587	1/2	11,674	1/2		1/2		1/2		1/2		1/2	
3/4	78,496	3/4	61,716	3/4	44,797	3/4	28,243	3/4	11,320	3/4		3/4		3/4		3/4		3/4	
11	78,145	11	61,366	11	44,444	11	27,899	11	10,966	11		11		11		11		11	
1/4	77,793	1/4	61,017	1/4	44,091	1/4	27,555	1/4	10,612	1/4		1/4		1/4		1/4		1/4	
1/2	77,441	1/2	60,667	1/2	43,737	1/2	27,211	1/2	10,258	1/2		1/2		1/2		1/2		1/2	
3/4	77,089	3/4	60,318	3/4	43,384	3/4	26,868	3/4	9,904	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2014 SW
CALCULATED: 12/11/2014 CL
PRINTED: 12/12/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

PRECISION MEASUREMENT
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BARGE "HFL 429"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	209,006	0	197,722	0	186,438	0	175,122	0	161,798	0	144,813	0	127,828	0	110,836		
1/4	1/4	1/4	208,771	1/4	197,487	1/4	186,202	1/4	174,886	1/4	161,444	1/4	144,459	1/4	127,474	1/4	110,482		
1/2	1/2	1/2	208,536	1/2	197,252	1/2	185,967	1/2	174,650	1/2	161,090	1/2	144,105	1/2	127,120	1/2	110,128		
3/4	3/4	3/4	208,301	3/4	197,017	3/4	185,731	3/4	174,415	3/4	160,736	3/4	143,751	3/4	126,766	3/4	109,773		
1	1	1	208,066	1	196,782	1	185,495	1	174,179	1	160,382	1	143,397	1	126,412	1	109,419		
1/4	1/4	1/4	207,830	1/4	196,547	1/4	185,259	1/4	173,943	1/4	160,028	1/4	143,043	1/4	126,058	1/4	109,065		
1/2	1/2	1/2	207,595	1/2	196,312	1/2	185,024	1/2	173,707	1/2	159,675	1/2	142,690	1/2	125,705	1/2	108,711		
3/4	3/4	3/4	207,360	3/4	196,077	3/4	184,788	3/4	173,471	3/4	159,321	3/4	142,336	3/4	125,351	3/4	108,356		
2	2	2	207,125	2	195,842	2	184,552	2	173,236	2	158,967	2	141,982	2	124,997	2	108,002		
1/4	1/4	1/4	206,890	1/4	195,607	1/4	184,316	1/4	173,000	1/4	158,613	1/4	141,628	1/4	124,643	1/4	107,648		
1/2	1/2	1/2	206,655	1/2	195,372	1/2	184,081	1/2	172,764	1/2	158,259	1/2	141,274	1/2	124,289	1/2	107,294		
3/4	3/4	216,383	206,420	3/4	195,137	3/4	183,845	3/4	172,528	3/4	157,905	3/4	140,920	3/4	123,935	3/4	106,940		
3	3	216,302	206,185	3	194,901	3	183,609	3	172,293	3	157,552	3	140,566	3	123,581	3	106,585		
1/4	1/4	216,221	205,950	1/4	194,666	1/4	183,373	1/4	172,057	1/4	157,198	1/4	140,213	1/4	123,228	1/4	106,231		
1/2	1/2	216,140	205,715	1/2	194,431	1/2	183,138	1/2	171,821	1/2	156,844	1/2	139,859	1/2	122,874	1/2	105,877		
3/4	3/4	216,059	205,480	3/4	194,196	3/4	182,902	3/4	171,585	3/4	156,490	3/4	139,505	3/4	122,520	3/4	105,523		
4	4	215,927	205,245	4	193,961	4	182,666	4	171,350	4	156,136	4	139,151	4	122,166	4	105,168		
1/4	1/4	215,796	205,010	1/4	193,726	1/4	182,430	1/4	171,114	1/4	155,782	1/4	138,797	1/4	121,812	1/4	104,814		
1/2	1/2	215,664	204,775	1/2	193,491	1/2	182,195	1/2	170,878	1/2	155,428	1/2	138,443	1/2	121,458	1/2	104,460		
3/4	3/4	215,533	204,539	3/4	193,256	3/4	181,959	3/4	170,642	3/4	155,075	3/4	138,089	3/4	121,104	3/4	104,106		
5	5	215,350	204,304	5	193,021	5	181,723	5	170,407	5	154,721	5	137,736	5	120,751	5	103,751		
1/4	1/4	215,168	204,069	1/4	192,786	1/4	181,487	1/4	170,171	1/4	154,367	1/4	137,382	1/4	120,397	1/4	103,397		
1/2	1/2	214,986	203,834	1/2	192,551	1/2	181,252	1/2	169,935	1/2	154,013	1/2	137,028	1/2	120,043	1/2	103,043		
3/4	3/4	214,804	203,599	3/4	192,316	3/4	181,016	3/4	169,699	3/4	153,659	3/4	136,674	3/4	119,689	3/4	102,689		
6	6	214,577	203,364	6	192,081	6	180,780	6	169,464	6	153,305	6	136,320	6	119,335	6	102,334		
1/4	1/4	214,351	203,129	1/4	191,846	1/4	180,544	1/4	169,228	1/4	152,951	1/4	135,966	1/4	118,981	1/4	101,980		
1/2	1/2	214,124	202,894	1/2	191,610	1/2	180,308	1/2	168,992	1/2	152,598	1/2	135,612	1/2	118,627	1/2	101,626		
3/4	3/4	213,898	202,659	3/4	191,375	3/4	180,073	3/4	168,756	3/4	152,244	3/4	135,259	3/4	118,274	3/4	101,272		
7	7	213,665	202,424	7	191,140	7	179,837	7	168,521	7	151,890	7	134,905	7	117,920	7	100,917		
1/4	1/4	213,432	202,189	1/4	190,905	1/4	179,601	1/4	168,285	1/4	151,536	1/4	134,551	1/4	117,566	1/4	100,563		
1/2	1/2	213,199	201,954	1/2	190,670	1/2	179,365	1/2	168,049	1/2	151,182	1/2	134,197	1/2	117,212	1/2	100,209		
3/4	3/4	212,966	201,719	3/4	190,435	3/4	179,130	3/4	167,813	3/4	150,828	3/4	133,843	3/4	116,858	3/4	99,855		
8	8	212,733	201,484	8	190,200	8	178,894	8	167,459	8	150,474	8	133,489	8	116,504	8	99,501		
1/4	1/4	212,501	201,248	1/4	189,965	1/4	178,658	1/4	167,106	1/4	150,121	1/4	133,136	1/4	116,150	1/4	99,146		
1/2	1/2	212,268	201,013	1/2	189,730	1/2	178,422	1/2	166,752	1/2	149,767	1/2	132,782	1/2	115,795	1/2	98,792		
3/4	3/4	212,035	200,778	3/4	189,495	3/4	178,187	3/4	166,398	3/4	149,413	3/4	132,428	3/4	115,441	3/4	98,438		
9	9	211,802	200,543	9	189,260	9	177,951	9	166,044	9	149,059	9	132,074	9	115,087	9	98,084		
1/4	1/4	211,569	200,308	1/4	189,025	1/4	177,715	1/4	165,690	1/4	148,705	1/4	131,720	1/4	114,733	1/4	97,729		
1/2	1/2	211,336	200,073	1/2	188,790	1/2	177,479	1/2	165,336	1/2	148,351	1/2	131,366	1/2	114,378	1/2	97,375		
3/4	3/4	211,104	199,838	3/4	188,555	3/4	177,244	3/4	164,982	3/4	147,997	3/4	131,012	3/4	114,024	3/4	97,021		
10	10	210,871	199,603	10	188,319	10	177,008	10	164,629	10	147,644	10	130,659	10	113,670	10	96,667		
1/4	1/4	210,638	199,368	1/4	188,084	1/4	176,772	1/4	164,275	1/4	147,290	1/4	130,305	1/4	113,316	1/4	96,312		
1/2	1/2	210,405	199,133	1/2	187,849	1/2	176,536	1/2	163,921	1/2	146,936	1/2	129,951	1/2	112,962	1/2	95,958		
3/4	3/4	210,172	198,898	3/4	187,614	3/4	176,301	3/4	163,567	3/4	146,582	3/4	129,597	3/4	112,607	3/4	95,604		
11	11	209,939	198,663	11	187,379	11	176,065	11	163,213	11	146,228	11	129,243	11	112,253	11	95,250		
1/4	1/4	209,707	198,428	1/4	187,144	1/4	175,829	1/4	162,859	1/4	145,874	1/4	128,889	1/4	111,899	1/4	94,895		
1/2	1/2	209,474	198,193	1/2	186,909	1/2	175,593	1/2	162,505	1/2	145,520	1/2	128,535	1/2	111,545	1/2	94,541		
3/4	3/4	209,241	197,957	3/4	186,674	3/4	175,358	3/4	162,152	3/4	145,167	3/4	128,182	3/4	111,190	3/4	94,187		

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 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

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<http://www.pmacorp.net>



BARGE "HFL 429"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	93,833	0	76,829	0	59,825	0	42,820	0	25,849	0	8,845	0		0		0		0	
1/4	93,478	1/4	76,475	1/4	59,471	1/4	42,466	1/4	25,494	1/4	8,490	1/4		1/4		1/4		1/4	
1/2	93,124	1/2	76,121	1/2	59,116	1/2	42,111	1/2	25,140	1/2	8,136	1/2		1/2		1/2		1/2	
3/4	92,770	3/4	75,767	3/4	58,762	3/4	41,757	3/4	24,786	3/4	7,782	3/4		3/4		3/4		3/4	
1	92,416	1	75,412	1	58,408	1	41,403	1	24,432	1	7,429	1		1		1		1	
1/4	92,062	1/4	75,058	1/4	58,054	1/4	41,049	1/4	24,077	1/4	7,075	1/4		1/4		1/4		1/4	
1/2	91,707	1/2	74,704	1/2	57,699	1/2	40,694	1/2	23,723	1/2	6,722	1/2		1/2		1/2		1/2	
3/4	91,353	3/4	74,350	3/4	57,345	3/4	40,340	3/4	23,369	3/4	6,368	3/4		3/4		3/4		3/4	
2	90,999	2	73,995	2	56,991	2	39,986	2	23,015	2	6,015	2		2		2		2	
1/4	90,645	1/4	73,641	1/4	56,636	1/4	39,633	1/4	22,660	1/4	5,662	1/4		1/4		1/4		1/4	
1/2	90,290	1/2	73,287	1/2	56,282	1/2	39,279	1/2	22,306	1/2	5,309	1/2		1/2		1/2		1/2	
3/4	89,936	3/4	72,933	3/4	55,928	3/4	38,925	3/4	21,952	3/4	4,956	3/4		3/4		3/4		3/4	
3	89,582	3	72,579	3	55,574	3	38,572	3	21,598	3	4,605	3		3		3		3	
1/4	89,228	1/4	72,224	1/4	55,219	1/4	38,218	1/4	21,243	1/4	4,253	1/4		1/4		1/4		1/4	
1/2	88,873	1/2	71,870	1/2	54,865	1/2	37,864	1/2	20,889	1/2	3,902	1/2		1/2		1/2		1/2	
3/4	88,519	3/4	71,516	3/4	54,511	3/4	37,511	3/4	20,535	3/4	3,550	3/4		3/4		3/4		3/4	
4	88,165	4	71,162	4	54,157	4	37,157	4	20,181	4	3,200	4		4		4		4	
1/4	87,811	1/4	70,807	1/4	53,802	1/4	36,804	1/4	19,826	1/4	2,851	1/4		1/4		1/4		1/4	
1/2	87,456	1/2	70,453	1/2	53,448	1/2	36,451	1/2	19,472	1/2	2,501	1/2		1/2		1/2		1/2	
3/4	87,102	3/4	70,099	3/4	53,094	3/4	36,097	3/4	19,118	3/4	2,152	3/4		3/4		3/4		3/4	
5	86,748	5	69,744	5	52,740	5	35,744	5	18,763	5	1,857	5		5		5		5	
1/4	86,394	1/4	69,390	1/4	52,385	1/4	35,390	1/4	18,409	1/4	1,562	1/4		1/4		1/4		1/4	
1/2	86,040	1/2	69,036	1/2	52,031	1/2	35,037	1/2	18,055	1/2	1,267	1/2		1/2		1/2		1/2	
3/4	85,685	3/4	68,682	3/4	51,677	3/4	34,684	3/4	17,701	3/4	972	3/4		3/4		3/4		3/4	
6	85,331	6	68,327	6	51,322	6	34,330	6	17,346	6		6		6		6		6	
1/4	84,977	1/4	67,973	1/4	50,968	1/4	33,977	1/4	16,992	1/4		1/4		1/4		1/4		1/4	
1/2	84,623	1/2	67,619	1/2	50,614	1/2	33,624	1/2	16,638	1/2		1/2		1/2		1/2		1/2	
3/4	84,268	3/4	67,265	3/4	50,260	3/4	33,270	3/4	16,284	3/4		3/4		3/4		3/4		3/4	
7	83,914	7	66,910	7	49,905	7	32,917	7	15,929	7		7		7		7		7	
1/4	83,560	1/4	66,556	1/4	49,551	1/4	32,564	1/4	15,575	1/4		1/4		1/4		1/4		1/4	
1/2	83,206	1/2	66,202	1/2	49,197	1/2	32,210	1/2	15,221	1/2		1/2		1/2		1/2		1/2	
3/4	82,851	3/4	65,847	3/4	48,843	3/4	31,857	3/4	14,867	3/4		3/4		3/4		3/4		3/4	
8	82,497	8	65,493	8	48,488	8	31,503	8	14,512	8		8		8		8		8	
1/4	82,143	1/4	65,139	1/4	48,134	1/4	31,150	1/4	14,158	1/4		1/4		1/4		1/4		1/4	
1/2	81,789	1/2	64,785	1/2	47,780	1/2	30,797	1/2	13,804	1/2		1/2		1/2		1/2		1/2	
3/4	81,434	3/4	64,430	3/4	47,425	3/4	30,443	3/4	13,450	3/4		3/4		3/4		3/4		3/4	
9	81,080	9	64,076	9	47,071	9	30,090	9	13,095	9		9		9		9		9	
1/4	80,726	1/4	63,722	1/4	46,717	1/4	29,737	1/4	12,741	1/4		1/4		1/4		1/4		1/4	
1/2	80,372	1/2	63,368	1/2	46,363	1/2	29,383	1/2	12,387	1/2		1/2		1/2		1/2		1/2	
3/4	80,017	3/4	63,013	3/4	46,008	3/4	29,030	3/4	12,033	3/4		3/4		3/4		3/4		3/4	
10	79,663	10	62,659	10	45,654	10	28,676	10	11,678	10		10		10		10		10	
1/4	79,309	1/4	62,305	1/4	45,300	1/4	28,323	1/4	11,324	1/4		1/4		1/4		1/4		1/4	
1/2	78,955	1/2	61,951	1/2	44,946	1/2	27,970	1/2	10,970	1/2		1/2		1/2		1/2		1/2	
3/4	78,601	3/4	61,596	3/4	44,591	3/4	27,616	3/4	10,615	3/4		3/4		3/4		3/4		3/4	
11	78,246	11	61,242	11	44,237	11	27,263	11	10,261	11		11		11		11		11	
1/4	77,892	1/4	60,888	1/4	43,883	1/4	26,910	1/4	9,907	1/4		1/4		1/4		1/4		1/4	
1/2	77,538	1/2	60,533	1/2	43,529	1/2	26,556	1/2	9,553	1/2		1/2		1/2		1/2		1/2	
3/4	77,184	3/4	60,179	3/4	43,174	3/4	26,203	3/4	9,199	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2014 SW
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CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

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